

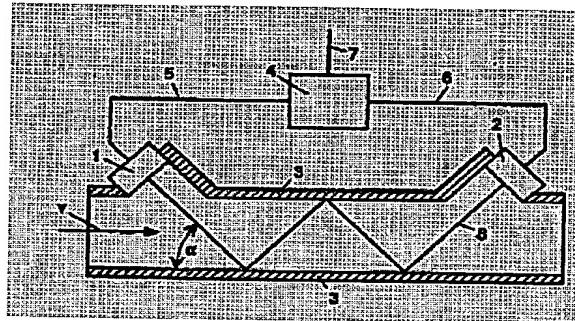
Ultrasound flowmeter calibration method

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Abstract of DE19605652

The flow meter has a measurement tube for measuring a physical value dependent on the flow velocity. The dimensions of the measurement tube are detected to determine a calibration factor. The calibration factor is then used to measure the flow vol. There is therefore no need for an experimental calibration. The dimensions of the measurement tube are determined mechanically or optically. Ultrasonic pulses are used to measure the flow volume. Pulse travel time difference measurement is used for a predetermined ultrasound path, e.g. a V or W-shaped path. The run length of the ultrasonic pulses is detected while the measurement tube is filled with a measurement medium of known acoustic velocity.



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